

PATENT NUMBER  
6244631  
U.S. UTILITY PATENT APPLICATION  
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**U.S. UTILITY PATENT APPLICATION**

① O.I.P.E. JA PATENT DATE JUN 12 2005  
SCANNED CL Q.A. KB

|        |       |          |          |                   |
|--------|-------|----------|----------|-------------------|
| SECTOR | CLASS | SUBCLASS | ART UNIT | EXAMINER          |
|        | 285   | 333      | 3627     | 200<br>Waterhouse |

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**PREPARED AND APPROVED FOR ISSUE**

| ISSUING CLASSIFICATION       |       |          |                    |                                   |     |  |  |  |  |
|------------------------------|-------|----------|--------------------|-----------------------------------|-----|--|--|--|--|
| ORIGINAL                     |       |          | CROSS REFERENCE(S) |                                   |     |  |  |  |  |
| CLASS                        |       | SUBCLASS | CLASS              | SUBCLASS (ONE SUBCLASS PER BLOCK) |     |  |  |  |  |
| 285                          |       | 333      | 285                | 390                               | 355 |  |  |  |  |
| INTERNATIONAL CLASSIFICATION |       |          |                    |                                   |     |  |  |  |  |
| F16L                         | 25/00 |          |                    |                                   |     |  |  |  |  |
|                              |       |          |                    |                                   |     |  |  |  |  |
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|--|--|---|--|---|--|
| <input type="checkbox"/> <b>TERMINAL DISCLAIMER</b>  |  | <b>DRAWINGS</b><br>Sheets Drwg. <u>1</u> Figs. Drwg. <u>2</u> Print Fig. <u>1</u>                                 |  | <b>CLAIMS ALLOWED</b><br>Total Claims <u>20</u> Print Claim for O.G. <u>1</u> |  |
| <input type="checkbox"/> a) The term of this patent subsequent to _____ (date) has been disclaimed.  |  | _____<br>(Assistant Examiner) _____ (Date)  |  | <b>NOTICE OF ALLOWANCE MAILED</b><br><u>1-22-01</u>                           |  |
| <input type="checkbox"/> b) The term of this patent shall not extend beyond the expiration date of U.S. Patent. No. _____<br>_____<br>_____  |  | <b>TERI PHAM LUU</b><br><b>PRIMARY EXAMINER</b><br><u>Teri Luu</u><br>(Primary Examiner) <u>1-19-01</u><br>(Date) |  | <b>ISSUE FEE</b><br>Amount Due <u>1240.00</u> Date Paid <u>4/24/01</u>        |  |
| <input type="checkbox"/> c) The terminal _____ months of this patent have been disclaimed.   |  | <u>S. Madams</u><br>(Legal Instruments Examiner) <u>1/23/01</u><br>(Date)   |  | <b>ISSUE BATCH NUMBER</b><br><u>AA4</u>                                       |  |
| <b>WARNING:</b><br>The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368.<br>Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only. |  |   |  |   |  |

Formal Drawings (\_\_\_\_ shrs) set \_\_\_\_\_

ISSUE FOR  
(LABEL AREA)

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